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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/408,567	09/29/1999	SENTHIL SENGODAN	550.108US01	4175

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EXAMINER

TRAN, TONGOC

ART UNIT

PAPER NUMBER

2134

DATE MAILED: 08/13/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/408,567

Applicant(s)

SENGODAN ET AL.

Examiner

Tongoc Tran

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 September 1999.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-27 is/are rejected.
- 7) ☒ Claim(s) 2-4, 9, 11-13, 20-22 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4,7. 6) ☐ Other:

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DETAILED ACTION

1. This office action is in response to Applicants' application number 09/408,567 filed on 9/29/1999.

Drawings

2. The drawings are objected to because Fig. 4, item 430 includes formula inconsistent with page 17, line 4 of the specification.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Objections

3. Claim 9 is objected to because of the following informalities: there is a typographical error on line 2 where the word "be" should be "the". Appropriate correction is required.
4. Claims 2-4, 11-13, 20-22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which

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said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1, 10 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Subbiah et al. (U.S. Patent No. 6,366,961) in view of Schulzrinne et al. (Network Working Group, "RTP: A Transport Protocol for Real-Time Applications", January 1996)

In respect to claims 1, 10 and 19, Subbiah discloses:

"a mini-packet protocol, comprising: assembling mini-packets into a payload wherein each mini-packet includes an associated mini-header for ensuring proper processing of each mini-packet (see Fig. 3 and col. 3, lines 33-40);

"a disassembler for receiving a payload, the payload including a plurality of mini-packets, wherein the disassembler dismantles the payload into individual mini-packets" (see Fig. 5 and col. 3, lines 7, lines 5-15);

"a controller and signaling module, couple to the disassembler, for processing the individual mini-packets into a payload wherein each mini-packet includes an associated mini-header for ensuring proper processing of each mini-packet"; "and an assembler for combining mini-packets into a new payload for transmission via an output port" (see Fig. 6 and col. 7, lines 9-30).

Subbiah does not disclose: "adding padding to mini-packets when the mini-packets are encrypted to insure each mini-packet is an integral multiple of a predetermined block size". However, Schulzrinne teaches adding padding to RTP packet with encryption algorithm with fixed block sizes (page 10, 3rd paragraph). It would have been obvious to one of ordinary skill in the art at the

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time the invention was made to include the teaching of adding padding to encrypted packet with a predetermined block size as taught by Schulzinne for security consideration when transmitting data over the network.

7. Claims 5-9, 14-18 and 23-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Subbiah (U.S. Patent No. 6,366,961) and Schulzrinne et al. (Network Working Group, "RTP: A Transport Protocol for Real-Time Applications", January 1996) as applied to claims 1, 10 and 19, and further in view of Ioannidis (swipe Internet Draft, "The swipe Security Protocol", December 3rd, 1993).

In respect to claims 5, 14 and 23, Subbiah and Schulzinne disclose the limitations as applies claim 1, 10 and 19. Subbiah and Schulzinne do not explicitly disclose adding an authenticator to each data packet. However, Ioannidis teaches said limitation (see page 4, line 1). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement an authenticator to Subbiah's mini-packet to ensure the data is received by intended receiver.

In respect to claims 6, 15 and 24, Subbiah and Schulzinne in view of Ioannidis disclose the limitations as applies to claims 5, 15 and 24 above, Ioannidis further teaches:
"setting a length indicator in each mini-header for indicating a total length of the mini-packet including the authenticator" (see page 4, line 1, a packet header identifies the size of the packet and therefore the limitation is met) .

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In respect to claims 7, 16 and 25, Subbiah and Schulzinne in view of loannidis disclose the limitations as applies to claims 6, 15 and 24 above, loannidis further teaches:

“removing the authenticator based upon knowing a type of authentication used for generating the authenticator” (see page 4, line 1, the limitation is met because the intended receiver is inherently provided the key to remove the authentication).

In respect to claims 8-9, 17-18 and 26-27, Subbiah and Schulzinne in view of loannidis disclose the limitations as applies to claims 7, 16 and 25, loannidis further teaches:

The limitations of “the type of authentication comprises HMAC-SHA1 and the authenticator is 20 bytes”;

“the type of authentication comprises HMAC-MD5 and the authenticator is 16 bytes” are met by loannidis’ teaching of using authentication function such as the cryptographically strong one way authenticator such as MD5 (see page 6, 3rd paragraph), SHA1 is another type of one way hash function authenticator, therefore the limitation is met.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tongoc Tran whose telephone number is (703) 305-7690. The examiner can normally be reached on 8:30-5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner’s supervisor, Gregory A. Morse can be reached on (703) 308-4789.


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The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7240 for regular communications and (703) 746-7240 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-9600.

Examiner Tongoc Tran
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TT
July 31, 2003


GREGORY MORSE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100